

PRELIMINARY AMENDMENT  
U.S. Appln. No. 09/804,144

second framing means for encapsulating said first type of frames into a payload portion, inserting appropriate overheads, to form a second type of frames;

B1  
a first transmitting means for outputting said second type of frames to the physical layer side device;

a second receiving means for receiving data packets from the physical layer side device;

a second de-framing means for removing the overheads, and extracting the first type of frames from the payload of the second type of frames;

Ref 1.124  
a first de-framing means for extracting the address field and the data contained in the information field from the first type of frames;

determining means for comparing the value of the SAPI field with a set of preset values including at least a first value and a second value, and if the value of the SAPI field data matches the first value, determining the extracted data is of a first type, and if the value of the SAPI field matches the second value, determining the extracted data is of a second type; and

a second transmitting means for transmitting the extracted data packets and the determining result to the network layer side device.--

89  
-87. (New) A router device comprising a plurality of line cards, and at least one of the line

cards includes:

a first receiving means for receiving data packets of a certain type from the network layer side device;

SAPI identifier generating means for recognizing the type of the data packets and generating a SAPI identifier according to the recognized type;

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first framing means for encapsulating a SAPI field including said SAPI identifier and an information field including said data packets into a frame, to form a first type of frames;

second framing means for encapsulating said first type of frames into a payload portion, inserting appropriate overheads, to form a second type of frames;

a first transmitting means for outputting said second type of frames to the physical layer side device;

a second receiving means for receiving data packets from the physical layer side device;

a second de-framing means for removing the overheads, and extracting the first type of frames from the payload of the second type of frames;

a first de-framing means for extracting the address field and the data contained in the information field from the first type of frames;

determining means for comparing the value of the SAPI field with a set of preset values including at least a first value and a second value, and if the value of the SAPI field data matches the first value, determining the extracted data is of a first type, and if the value of the SAPI field matches the second value, determining the extracted data is of a second type; and

a second transmitting means for transmitting the extracted data packets and the determining result to the network layer side device.--

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